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n piết

- A piezoelectric ceramic body comprising:
- a plurality of insulating layers situated one over the other, the insulating layers being composed of a piezoactive ceramic material; and internal electrodes separating at least portions of the insulating layers from each other, at least a part of at least one of the internal electrodes containing a silver-containing material, the material of the at least one internal electrode having a component which at least one of reduces and inhibits a diffusion of silver from the at least one internal electrode into an insulating layer.
- The piezoelectric ceramic body according to claim 1, wherein the component
   contains a piezoelectric ceramic component.
- 1 5 3. The piezoelectric ceramic body according to claim 2, wherein the ceramic component includes Pb (Ti<sub>x</sub>Zr<sub>1-x</sub>)O<sub>3</sub>, where 0.40 < x < 0.60.
- 1 4. The piezoelectric ceramic body according to claim 1, wherein the material has an AgPd alloy as a main component.
- The piezoelectric ceramic body according to claim 4, wherein the alloy
   contains at least 70 percent per mass Ag.
- 1 6. The piezoelectric ceramic body according to claim 1, wherein the component is present in a concentration of a maximum of 50 percent by volume, with respect to an overall volume of a material of the internal electrode.
- 7. The piezoelectric ceramic body according to claim 1, wherein the component contains at least one of:
- rare-earth metals including at least one of La and Nd;
  subgroup elements including at least one of Nb, Ta, Fe and Ni;
  alkali metals including at least one of Li, Na and K; and

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## alkaline-earth metals including Sr.

- 1 8. The piezoelectric ceramic body according to claim 7, wherein the at least one 2 of the rare-earth metals, the subgroup elements, the alkali metals and the alkaline-3 earth metals are used as dopants at a concentration of less than 8 Mol%, with 4 respect to a material of the internal electrode.
- The piezoelectric ceramic body according to claim 1, wherein the internal
   electrodes are electrically conductive and are composed of an AgPd alloy.
- 10. The piezoelectric ceramic body according to claim 9, wherein the internal electrodes are further composed of a PZT ceramic modified by at least one of: rare-earth metals, subgroup elements, alkali metals and alkaline-earth metals.